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FORM

(to be used for all correspondence after initial filing)

		Application Number	10/724,336
		Filing Date	November 29, 2003
		First Named Inventor	Howard et al.
		Art Unit	2832
		Examiner Name	unknown
Total Number of Pages in This Submission	4 + 103	Attorney Docket Number	142.009US01

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form 1449; copies of 21 references. <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance communication to (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): <input type="checkbox"/> Application Data Sheet <input type="checkbox"/> Communication re: Missing Parts <input checked="" type="checkbox"/> Return postcard
Remarks		
CUSTOMER NO. 34206		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Fogland Associates, LLC		
Signature			
Printed name	Laura A. Ryan		
Date	March 10, 2005	Reg. No.	49,055

## CERTIFICATE OF TRANSMISSION/MAILING

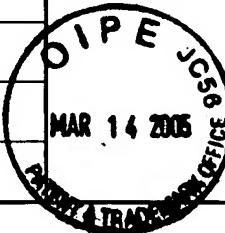
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Nicole Landree	Date	March 10, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

In you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Applicant(s)	Howard et al.
Serial No.	10/724,336
Filing Date	November 29, 2003
Examiner Name	Unassigned
Group Art Unit	2832
Confirmation No.	9977
Attorney Docket No.	142.009US01
Title: SENSING APPARATUS AND METHOD	



INFORMATION  
DISCLOSURE  
STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with 37 C.F.R. § 1.56, and in accordance with 37 CFR § 1.97, *et seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP §609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

As an Office Action has not yet issued in the application, it is believed that no fee is due; however, should fees be required, the Commission for Patents is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 502432.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

Date: 10 March 2005

Laura A. Ryan  
Reg. No. 49,055

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Applicant(s)	Howard et al.	<b>INFORMATION DISCLOSURE STATEMENT FORM PTO-1449</b>
Serial No.	10/724,336	
Filing Date	November 29, 2003	
Group Art Unit	2832	
Examiner Name	Unknown	
Attorney Docket No.	142.009US01	
Title: SENSING APPARATUS AND METHOD		
		Sheet 1 of 2

<b>U.S. Patent References</b>				
Examiner Initials	Patent No.	Issue Date	Name	Filing Date
	US 3,772,587	11/13/1973	Farrand et al.	3/15/1972
	US 3,789,393	1/29/1974	Tripp	10/26/1972
	US 4,253,079	2/24/1981	Brosh	4/11/1979
	US 4,282,485	8/4/1981	Pauwels et al.	5/22/1978
	US 4,467,320	8/21/1984	McPhee	5/6/1982
	US 4,671,116	6/9/1987	Glennon et al.	11/30/1984
	US 4,697,144	9/29/1987	Howbrook	4/10/1985
	US 4,737,698	4/12/1988	McMullin et al.	10/18/1985
	US 4,853,666	8/1/1989	Fesenmeier et al.	5/31/1988
	US 4,893,077	1/9/1990	Auchterlonie	3/31/1988
	US 4,893,078	1/9/1990	Auchterlonie	5/28/1987
	US 4,970,450	11/13/1990	Karl et al.	10/4/1989
	US 5,023,408	6/11/1991	Murakami et al.	6/13/1989
	US 5,173,696	12/22/1992	Howard et al.	6/3/1991
	US 5,260,650	11/9/1993	Schwestig et al.	6/19/1989
	US 5,433,115	6/18/1995	Spillman, Jr. et al.	6/14/1993
	US 5,513,913	5/7/1996	Ball et al.	5/28/1993
	US 5,598,153	1/28/1997	Brasseur et al.	7/8/1993
	US 5,646,496	7/8/1997	Woodland et al.	3/18/1996
	US 5,793,202	8/11/1998	Ikemoto	2/23/1996
	US 5,793,204	8/11/1998	Logue	12/12/1996
	US 5,796,250	8/18/1998	Dames	5/3/1994
	US 5,815,091	9/29/1998	Dames et al.	5/15/1995
	US 6,124,708	9/26/2000	Dames	11/25/1996
	US 6,239,571	5/29/2001	Shimahara	12/6/1999
	US 6,304,014	10/16/2001	England et al.	10/2/1998

<b>Foreign Patent References</b>				
Examiner Initials	Foreign Patent		Name	Publication Date
	Country	No.		
	WIPO	WO 99/34171	Absolute Sensors Limited	8 July 1999
	WIPO	WO 99/61868	Absolute Sensors Limited	2 December 1999
	WIPO	WO 00/33244	Synaptics (UK) Limited	8 June 2000
	WIPO	WO 00/77480	Scientific Generics Limited	21 December 2000
	WIPO	WO 01/29759	Synaptics (UK) Limited	26 April 2001
	WIPO	WO 01/42865	Scientific Generics Limited	14 June 2001
	WIPO	WO 98/43046	Brasseur	1 October 1998
	WIPO	WO 98/00921	Scientific Generics Limited	8 January 1998
	EP	0 487 730	Hamanishi Sangyo Co., Ltd.	03.06.92
	EP	0 772 025	Goto, Atsutoshi Fuchu-shi, Tokyo-to	07.05.1997

Examiner Signature	Date Considered
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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE  
STATEMENT  
FORM PTO-1449**

Title: SENSING APPARATUS AND METHOD

Sheet 2 of 2

	EP	0 748 054	Tamagawa Seiki Kabushiki Kaisha	11.12.1996	
	GB	2 021 273	Pneumo Corporation	28.11.1979	
	GB	2 044 461	Moog Inc.	15.10.1980	
	GB	2 197 078	Radiodetection Limited	11.05.1988	
	JP	57-122311 (English abstract attached)	Furukawa Electric Co Ltd	30.07.1982	
	JP	63-218819	Shinko Electric Co. Ltd.	12.09.1988	X
	DE	42 30 950 (English abstract attached)	Ludwig/Wanierke	23.09.1993	
	SU	1458946	All-Union Research Institute of Electric Machine Industry and Yerevan Polytechnic Institute	15.02.1986	X

**Other References**

Examiner Initials	Author, Title, Date, Pages, etc.
	“Sensing Position” by Mark Howard and Richard Doyle, published on the internet in Appliance Manufacturer Magazine, March 27, 2001.
	“Innovative Interfaces” by Mark Howard, published on the internet in Appliance Manufacturer Magazine, October 26, 2001.
	“Accurate Linear Measurement Using LVDT’s” by George Novacek, Circuit Cellular, Issue 106, May 1999, pgs. 1-6.

Examiner Signature	Date Considered
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Based on Form PTO-FB-A820 Patent and Trademark Office, U.S. Department of Commerce